

Title (en)
Method for manufacturing master of die for shaping golf ball

Title (de)
Verfahren zur Herstellung einer Formenmatrize für Golfbälle

Title (fr)
Procédé de fabrication d'une matrice de moulage pour balles de golf

Publication
EP 0839622 A3 20010228 (EN)

Application
EP 98102115 A 19930603

Priority
• EP 93108956 A 19930603
• JP 17469292 A 19920608

Abstract (en)
[origin: EP0573900A1] A method for forming a plurality of small concaves, for forming dimples (3) on the surface of the golf ball (2), on a semispheric surface of a material of a master by electric discharge machining in such a manner that the small concaves are nonspheric in a direction perpendicular to the semispheric surface and in a vertical section of each small concave. <IMAGE>

IPC 1-7
B29C 33/38; **B23H 9/06**; **B29C 33/42**; **B29L 31/54**; **B23Q 17/22**; **A63B 37/00**; **B23H 7/26**

IPC 8 full level
B23H 7/00 (2006.01); **B23H 9/06** (2006.01); **B29C 33/42** (2006.01)

CPC (source: EP KR US)
B23H 7/00 (2013.01 - KR); **B23H 9/06** (2013.01 - EP US); **B29C 33/42A** (2013.01 - EP US); **B29L 2031/54** (2013.01 - EP US);
B29L 2031/545 (2013.01 - EP US)

Citation (search report)
• [Y] US 4409457 A 19831011 - TAKAHASHI KENICHI [JP], et al
• [Y] US 4869512 A 19890926 - NOMURA JUNE [JP], et al
• [A] WO 8501464 A1 19850411 - GRAFON AG [CH]
• [A] EP 0252842 A1 19880113 - BANQUE DE FRANCE [FR]
• [Y] PATENT ABSTRACTS OF JAPAN vol. 016, no. 153 (M - 1235) 15 April 1992 (1992-04-15)
• [A] PATENT ABSTRACTS OF JAPAN vol. 016, no. 258 (M - 1264) 11 June 1992 (1992-06-11)
• [Y] PATENT ABSTRACTS OF JAPAN vol. 006, no. 106 (M - 213) 10 May 1983 (1983-05-10)
• [A] DATABASE WPI Section Ch Week 8237, September 1982 Derwent World Patents Index; Class M11, AN 1982-54444E [37], XP002156286

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0573900 A1 19931215; **EP 0573900 B1 19980916**; AU 3992393 A 19931209; AU 666010 B2 19960125; CA 2097451 A1 19931209;
CA 2097451 C 19990126; DE 69321035 D1 19981022; DE 69321035 T2 19990512; DE 69333291 D1 20031211; DE 69333291 T2 20040909;
EP 0839622 A2 19980506; EP 0839622 A3 20010228; EP 0839622 B1 20031105; KR 100268688 B1 20001016; KR 940005344 A 19940321;
TW 221383 B 19940301; US 5406043 A 19950411

DOCDB simple family (application)
EP 93108956 A 19930603; AU 3992393 A 19930601; CA 2097451 A 19930601; DE 69321035 T 19930603; DE 69333291 T 19930603;
EP 98102115 A 19930603; KR 930010206 A 19930607; TW 82104299 A 19930531; US 7304193 A 19930608